

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 71L0528.WO6	FOR FURTHER ACTION		See item 4 below
International application No. PCT/IB2004/003323	International filing date (<i>day/month/year</i>) 12 October 2004 (12.10.2004)	Priority date (<i>day/month/year</i>) 30 October 2003 (30.10.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant RIGHI, Ermanno			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).
2. This REPORT consists of a total of 6 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input type="checkbox"/> Box No. II | Priority |
| <input type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

	Date of issuance of this report 01 May 2006 (01.05.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Cecile Chatel
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 70 60

Form PCT/IB/373 (January 2004)

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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 07 FEB 2005

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To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/B2004/003323

International filing date (day/month/year)
12.10.2004

Priority date (day/month/year)
30.10.2003

International Patent Classification (IPC) or both national classification and IPC
F16G13/06, F16G13/18, F16G13/10, B62M9/00, B62M9/02

Applicant
PRO 2 S.R.L.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl
Fax: +31 70 340 - 3016

Authorized Officer

TERRIER DE LA CHAISE

Telephone No. +31 70 340-3614



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/IB2004/003323

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/IB2004/003323

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	2-30
	No: Claims	1
Inventive step (IS)	Yes: Claims	
	No: Claims	1-30
Industrial applicability (IA)	Yes: Claims	1-30
	No: Claims	

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/IB2004/003323

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

- 1 Reference is made to the following documents:

D1: EP-A-0 494 670

(SHIMANO INC) 15 July 1992 (1992-07-15)

D2: US-A-3 093 235

(IMSE PHILIP J) 11 June 1963 (1963-06-11)

D3: US-A-5 322 483

(WANG ET AL) 21 June 1994 (1994-06-21)

D4: JP 60 093017 A

(HITACHI SEISAKUSHO KK) 24 May 1985 (1985-05-24)

D5: US-A-1 945 357

(PIERCE HAROLD S) 30 January 1934 (1934-01-30)

D6: US-A-2 277 915

(KLAUCKE HERMANN) 31 March 1942 (1942-03-31)

D7: EP-A-0 666 434

(SACHS INDUSTRIES S.A.) 9 August 1995 (1995-08-09)

- 2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses in fig. 3 and 4 (the references in parentheses applying to this document):

An articulated chain for drive transmission in bicycles, comprising:

- ◆ a plurality of external links (12a) each of which exhibits at least a first external plate (12a) having a first end and a second end, and a second external plate (12a), parallel to the first external plate (12a) and having a first end and a second end;
- ◆ a plurality of rotation pivots (14) interpositioned between the first external plate (12a) and the second external plate (12a) of each external link (12a) in positions at the first ends and the second ends of the respective first external plate (12a) and the second external plate (12a);
- ◆ a plurality of internal links (12b), each of which internal links (12b) exhibits at least

- a first internal plate (12b) having a first end and a second end and a second internal plate (12b), parallel to the first internal plate (12b) and having a first end and a second end;
- ♦ a plurality of bushes (12) interpositioned between the first internal plate (12b) and the second internal plate (12b) of each internal link (12b) at the first ends and the second ends thereof, each of the rotation pivots (14) being inserted coaxially into a bush (15) of the plurality of bushes (15), for defining an alternating succession of the external links (12a) and the internal links (12b) which are rotatably and consecutively connected about respective main rotation axes;
 - ♦ each of the plurality of bushes (15) defining, with a respective pivot (14), a spherical coupling surface for allowing a rotation between an internal link (12b) and an adjacent external link (12a), about a perpendicular axis to the main rotation axis, wherein it comprises anti-rotation elements (17) which reduce a possibility of rotation with respect to an alignment direction of each pair of links being an internal link (12b) and an external link (12a).
- 3 Dependent claims 2-30 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D7 and the corresponding passages cited in the search report.

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From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

NERI, Luciano
Bugnion S.p.A.
Via Emilia Est, 25
I-41100 Modena
Italy

Date of mailing (day/month/year) 04 April 2006 (04.04.2006)	
Applicant's or agent's file reference 71L0528.WO6	IMPORTANT NOTIFICATION
International application No. PCT/IB2004/003323	International filing date (day/month/year) 12 October 2004 (12.10.2004)

1. The following indications appeared on record concerning: <input checked="" type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative		
Name and Address PRO 2 S.r.l. L.A.M. S.r.l.	State of Nationality IT	State of Residence IT
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input checked="" type="checkbox"/> the person <input checked="" type="checkbox"/> the name <input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence		
Name and Address F.S.A. S.r.l. Via del Lavoro, 56 I-20040 Busnago (Milano) Italy EPO-DG 1 13. 04. 2006 TEAM 14	State of Nationality IT	State of Residence IT
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary: The persons indicated in Box 1 have assigned their rights to the person indicated in Box 2.	
4. A copy of this notification has been sent to: <input checked="" type="checkbox"/> the receiving Office <input checked="" type="checkbox"/> the designated Offices concerned <input type="checkbox"/> the International Searching Authority <input type="checkbox"/> the elected Offices concerned <input type="checkbox"/> the International Preliminary Examining Authority <input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.70.60	Authorized officer Jean-François LAMBERT (Fax : 4122 338 Telephone No. (41-22) 338 8717
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